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[illegible]


```
1 0001 0 MODULE LIB$GET_INPUT (      ! Library $GET on device SYSS$INPUT
2 0002 0
3 0003 0 IDENT = '1-015'              ! File: LIBGETINP.B32 Edit: STAN1015
4 0004 0
5 0005 0 ) =
6 0006 1 BEGIN
7 0007 1
8 0008 1 *****
9 0009 1 *
10 0010 1 * COPYRIGHT (c) 1978, 1980, 1982, 1984 BY
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12 0012 1 * ALL RIGHTS RESERVED.
13 0013 1 *
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26 0026 1 * SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL.
27 0027 1 *
28 0028 1 *
29 0029 1 *****
30 0030 1
31 0031 1
32 0032 1 ++
33 0033 1 FACILITY: General Utlity Library
34 0034 1
35 0035 1 ABSTRACT:
36 0036 1
37 0037 1 Output a string as a record on device SYSS$INPUT.
38 0038 1
39 0039 1 ENVIRONMENT: User Mode - AST re-entrant
40 0040 1
41 0041 1 AUTHOR: Thomas N. Hastings, CREATION DATE: 8-Aug-1977
42 0042 1
43 0043 1 MODIFIED BY:
44 0044 1
45 0045 1 Thomas N. Hastings, 8-Aug-1977: VERSION 0
46 0046 1 01 - original
47 0047 1 04 - change to SYSS$INPUT
48 0048 1 05 - change to do OPEN at first time
49 0049 1 06 - change to set up RAB for GET_STRING
50 0050 1 0-7 - fix comment
51 0051 1 0-10 - Change to STARLET library. DGP 20-Apr-78
52 0052 1 0-11 - Remove EXTERNAL RMS$RTB. TNH 24-Apr-78
53 0053 1 0-12 - Change REQUIRE files for VAX system build. DGP 28-Apr-78
54 0054 1 0-13 - Change STARLET to RTLSTARLE to avoid conflicts. DGP 1-May-78
55 0055 1 0-14 - Add LIB$GET_COMMAND entry point. TNH 17-June-78
56 0056 1 For now, just copy entire routine.
57 0057 1 0-15 - Make wait if record stream active so AST re-entrant.
```

```
.. 58      0058 1 | Also allocate dynamic string if passed. TNH 29-July-78
.. 59      0059 1 | 0-18 - Make common routine. TNH 29-July-78
.. 60      0060 1 | 0-19 - Use LIB$COPY_R_DX, not DD. TNH 2-Aug-78
.. 61      0061 1 | 0-20 - Change file name to LIBGETINP.B32, and change the name of
.. 62      0062 1 |         the REQUIRE file similarly. JBS 14-NOV-78
.. 63      0063 1 | 1-001 - Update version number and copyright notice. JBS 16-NOV-78
.. 64      0064 1 | 1-002 - Declare NULLPARAMETER for new BLISS compiler. JBS 22-NOV-78
.. 65      0065 1 | 1-003 - Change REQUIRE file names from FOR... to OTS... JBS 07-DEC-78
.. 66      0066 1 | 1-003 - Put in extra RETURN to avoid INFO message about a null
.. 67      0067 1 |         expression in a value-required context. JBS 22-NOV-78
.. 68      0068 1 | 1-004 - Change LIB$S to STR$. JBS 23-MAY-1979
.. 69      0069 1 | 1-005 - Change call to STR$COPY. JBS 16-JUL-1979
.. 70      0070 1 | 1-006 - Optionally return the number of characters in the record, so
.. 71      0071 1 |         callers with fixed strings can ignore trailing blanks.
.. 72      0072 1 |         JBS 06-SEP-1979
.. 73      0073 1 | 1-007 - Revise edit 006 to not return more than the number of bytes
.. 74      0074 1 |         requested, and return as a word. This is similar to system
.. 75      0075 1 |         services. JBS 18-SEP-1979
.. 76      0076 1 | 1-008 - Use LIB$COPY_R_DX to copy string since STR$COPY_R signals
.. 77      0077 1 |         errors.
.. 78      0078 1 |         Do string copy even if $GET fails because the string may have
.. 79      0079 1 |         been returned. When waiting for record stream to become
.. 80      0080 1 |         inactive, do $GET's, not $PUT's! SBL 22-Jan-1980
.. 81      0081 1 | 1-009 - Enhance to recognize additional classes of string descriptors
.. 82      0082 1 |         by invoking LIB$ANALYZE_SDESC_R3 to extract length and address
.. 83      0083 1 |         of 1st data byte from descriptor. RKR 27-MAY-1981.
.. 84      0084 1 | 1-010 - Correct bugs caused by fact that LIB$ANALYZE_SDESC_R3 returns
.. 85      0085 1 |         a word length rather than a byte or longword. SBL 4-Sep-1981
.. 86      0086 1 | 1-011 - Correct comment regarding statuses returned.
.. 87      0087 1 |         Add special-case code for string descriptors that "read" like
.. 88      0088 1 |         fixed string descriptors to avoid calls to
.. 89      0089 1 |         LIB$ANALYZE_SDESC_R3. RKR 7-OCT-1981
.. 90      0090 1 | 1-012 - Redirect jsb's from LIB$ANALYZE_SDESC_R3 to
.. 91      0091 1 |         LIB$ANALYZE_SDESC_R2. Use LIB$COPY_R_DX6 to do copying.
.. 92      0092 1 |         RKR 18-NOV-1981.
.. 93      0093 1 | 1-013 - Add support for class S0 string descriptors. DG 3-Oct-1983.
.. 94      0094 1 | 1-014 - Change class S0 string descriptors to SB. DG 27-Feb-1984
.. 95      0095 1 | 1-015 - If called with a dynamic string descriptor already containing
.. 96      0096 1 |         more than 256 bytes of buffer, use that buffer. STAN 8-Jul-1984.
.. 97      0097 1 | --
.. 98      0098 1 | <BLF/PAGE>
```



```
100 0099 1 |
101 0100 1 | SWITCHES
102 0101 1 |
103 0102 1 |
104 0103 1 | SWITCHES ADDRESSING MODE
105 0104 1 | (EXTERNAL = GENERAL, NONEXTERNAL = WORD_RELATIVE);
106 0105 1 |
107 0106 1 |
108 0107 1 | LINKAGES
109 0108 1 |
110 0109 1 | REQUIRE 'RTLIN:STRLNK'; ! Linkage for LIB$ANALYZE_SDESC_R2
111 0294 1 |
112 0295 1 |
113 0296 1 | TABLE OF CONTENTS:
114 0297 1 |
115 0298 1 |
116 0299 1 | FORWARD ROUTINE
117 0300 1 | LIB$GET_INPUT, ! Get string from device SYSS$INPUT
118 0301 1 | LIB$GET_COMMAND, ! Get string from device SYSS$COMMAND
119 0302 1 | DO_GET; ! Common rout. to do main part of above.
120 0303 1 |
121 0304 1 |
122 0305 1 | INCLUDE FILES:
123 0306 1 |
124 0307 1 |
125 0308 1 | REQUIRE 'RTLIN:RTLPSECT'; ! Define DECLARE_PSECTS macro
126 0403 1 |
127 0404 1 | LIBRARY 'RTLSTARLE'; ! STARLET library for macros and symbols
128 0405 1 |
129 0406 1 |
130 0407 1 | MACROS:
131 0408 1 |
132 0409 1 |
133 0410 1 | EQUATED SYMBOLS:
134 0411 1 |
135 0412 1 |
136 0413 1 | LITERAL
137 0414 1 |
138 0415 1 | K_DYN_STR_MAX = 256; ! Max. size of dynamic string which can
139 0416 1 | ! be handled before truncation
140 0417 1 |
141 0418 1 | PSECT DECLARATIONS:
142 0419 1 |
143 0420 1 | DECLARE_PSECTS (LIB); ! declare PSECTs for LIB$ facility
144 0421 1 |
145 0422 1 | OWN STORAGE:
146 0423 1 |
147 0424 1 |
148 0425 1 | OWN
149 0426 1 | SYS_INPUT_ISI : WORD INITIAL (0); ! ISI for SYSS$INPUT
150 0427 1 | SYS_COMMAND_ISI : WORD INITIAL (0); ! ISI for SYSS$COMMAND
151 0428 1 |
152 0429 1 |
153 0430 1 | EXTERNAL REFERENCES:
154 0431 1 |
155 0432 1 |
156 0433 1 | EXTERNAL ROUTINE
```

LIB\$GET_INPUT
1-015

1 8
16-Sep-1984 01:00:46
14-Sep-1984 12:38:58

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[LIBRTL.SRC]LIBGETINP.B32;1

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```
: 157      0434 1      LIB$ANALYZE_SDESC_R2 : LIB$ANALYZE_SDESC_JSB_LINK, ! Extract length
: 158      0435 1                                     ! and address of
: 159      0436 1                                     ! 1st data byte
: 160      0437 1                                     ! from descriptor
: 161      0438 1      LIB$SCOPY_R_DX6 : STRING_JSB ;      ! Copy to any class string
: 162      0439 1
: 163      0440 1      EXTERNAL
: 164      0441 1      LIB$FATERRLIB,      ! LIB -- FATAL ERROR IN LIBRARY
: 165      0442 1      LIB$INPSTRTRU;      ! LIB -- INPUT STRING TRUNCATED
: 166      0443 1
```



```
168 0444 1 GLOBAL ROUTINE LIB$GET_INPUT (      ! Input string from SYSS$INPUT
169 0445 1
170 0446 1     GET STRING,      ! Adr. of string descriptor
171 0447 1     PROMPT_STRING, ! Adr. of optional PROMPT_STRING string
172 0448 1     descriptor
173 0449 1     OUTLEN        ! Optional number of bytes returned
174 0450 1
175 0451 1     ) = ! Value returned is RMS completion code
176 0452 1
177 0453 1 ++
178 0454 1 FUNCTIONAL DESCRIPTION:
179 0455 1
180 0456 1     A line from the current controlling input device, SYSS$INPUT, is
181 0457 1     obtained. If an optional PROMPT_STRING is given, output will
182 0458 1     appear on the device, SYSS$INPUT, if the device is a terminal;
183 0459 1     otherwise the PROMPT_STRING is ignored. No CRLF is
184 0460 1     appended to the record obtained from RMS. On first call,
185 0461 1     device SYSS$INPUT is opened.
186 0462 1     Thus the user can assign the logical name SYSS$INPUT to any file
187 0463 1     name in order to redirect I/O.
188 0464 1
189 0465 1 CALLING SEQUENCE:
190 0466 1
191 0467 1     RET_STATUS.wlc.v = LIB$GET_INPUT (get_string.wt.dx
192 0468 1     [,prompt_string.rt.dx
193 0469 1     [,outlen.wv.r]])
194 0470 1
195 0471 1 INPUT PARAMETERS:
196 0472 1
197 0473 1     prompt_string is the address of a string descriptor specifying
198 0474 1     an optional prompt which is output to the
199 0475 1     controlling input device. Where other conventions
200 0476 1     are not established, it is recommended for
201 0477 1     consistency to make prompts be an English word
202 0478 1     followed by a colon(:), one (1) space, and no
203 0479 1     CRLF.
204 0480 1
205 0481 1 OUTPUT PARAMETERS:
206 0482 1
207 0483 1     get_string is the address of string descriptor of any type
208 0484 1     of descriptor supported by LIB$ANALYZE_SDESC.
209 0485 1
210 0486 1     outlen     Is the number of characters placed in the string.
211 0487 1
212 0488 1 IMPLICIT INPUTS:
213 0489 1
214 0490 1     SYS_INPUT_ISI Set on first call to RMS internal stream
215 0491 1     identifier.
216 0492 1
217 0493 1 IMPLICIT OUTPUTS:
218 0494 1
219 0495 1     SYS_INPUT_ISI Set to RMS internal stream identifier
220 0496 1     on first call when SYSS$INPUT is OPENed.
221 0497 1
222 0498 1
223 0499 1 COMPLETION STATUS:
224 0500 1
```

```
225 0501 1 1 SSS_NORMAL if success.
226 0502 1 1
227 0503 1 1 LIB$_INPSTRTRU if input string is bigger than the caller's
228 0504 1 1 fixed length string.
229 0505 1 1 LIB$_INVSTRDES if the input descriptor's class is not a
230 0506 1 1 recognized string class.
231 0507 1 1 RMS$_xyz if any RMS error.
232 0508 1 1
233 0509 1 1 SIDE EFFECTS:
234 0510 1 1
235 0511 1 1 Opens file SYSS$INPUT on first call and remembers ISI for
236 0512 1 1 subsequent calls.
237 0513 1 1
238 0514 1 1
239 0515 2 2 BEGIN
240 0516 2 2
241 0517 2 2 BUILTIN
242 0518 2 2 NULLPARAMETER;
243 0519 2 2
244 0520 2 2 RETURN DO GET (.GET STRING, ! String to return
245 0521 2 2 (IF NULLPARAMETER (2) THEN 0 ELSE .PROMPT_STRING), ! Optional
246 0522 2 2 (IF NULLPARAMETER (3) THEN 0 ELSE .OUTLEN), ! Optional
247 0523 2 2 ! prompt
248 0524 2 2 ! number of
249 0525 2 2 ! bytes returned
250 0526 2 2 SYS_INPUT_ISI, ! internal stream id for SYSS$INPUT
251 0527 2 2 9, ! length of SYSS$INPUT string
252 0528 2 2 UPLIT ('SYSS$INPUT')); ! name to open first time
253 0529 2 2
254 0530 1 1 END; ! End of LIB$GET_INPUT routine
```

```
.TITLE LIB$GET_INPUT
.IDENT \1-015\

.PSECT _LIB$DATA,NOEXE, PIC,2

0000 00000 SYS_INPUT_ISI:
.WORD 0
0000 00002 SYS_COMMAND_ISI:
.WORD 0

.PSECT _LIB$CODE,NOWRT, SHR, PIC,2

00 00 00 54 55 50 4E 49 24 53 59 53 00000 P.AAA: .ASCII \SYSS$INPUT\<0><0><0>

.EXTRN LIB$ANALYZE_SDESC_R2
.EXTRN LIB$SCOPY_R_DX6
.EXTRN LIB$_FATERRCIB, LIB$_INPSTRTRU

0000 00000
EF AF 9F 00002
09 DD 00005
03 00000000' EF 9F 00007
6C 91 0000D
05 1F 00010
OC AC D5 00012

.ENTRY LIB$GET_INPUT, Save nothing
PUSHAB P.AAA
PUSHL #9
PUSHAB SYS_INPUT_ISI
CMPB (APT, #3)
BLSSU 1$
TSTL 12(AP)
```

: 0444
: 0528
: 0520
: 0523
:
:
:

LIB\$GET_INPUT
1-015

L 8
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		04	12	00015	BNEQ	2\$	
		7E	D4	00017	CLRL	-(SP)	
		03	11	00019	BRB	3\$	
02	0C	AC	DD	0001B	PUSHL	OUTLEN	
		6C	91	0001E	CMPB	(AP), #2	0521
		05	1F	00021	BLSSU	4\$	
	08	AC	D5	00023	TSTL	8(AP)	
		04	12	00026	BNEQ	5\$	
		7E	D4	00028	CLRL	-(SP)	
		03	11	0002A	BRB	6\$	
	08	AC	DD	0002C	PUSHL	PROMPT_STRING	
	04	AC	DD	0002F	PUSHL	GET_STRING	0520
0000V	CF	06	FB	00032	CALLS	#6, DO_GET	
		04	00037	RET			0530

; Routine Size: 56 bytes, Routine Base: _LIB\$CODE + 000C

```
256 0531 1 GLOBAL ROUTINE LIB$GET_COMMAND (      ! Input string from SYSS$COMMAND
257 0532 1
258 0533 1     GET_STRING,      ! Adr. of string descriptor
259 0534 1     PROMPT_STRING, ! Adr of optional PROMPT_STRING
260 0535 1                                ! descriptor
261 0536 1     OUTLEN      ! Number of chars returned
262 0537 1
263 0538 1                                ) = ! Value returned is RMS completion
264 0539 1                                ! code
265 0540 1
266 0541 1 ++
267 0542 1 FUNCTIONAL DESCRIPTION:
268 0543 1
269 0544 1     A line from the current controlling input device, SYSS$COMMAND,
270 0545 1     is obtained.  If an optional PROMPT_STRING is given, output
271 0546 1     will appear on the device, SYSS$COMMAND, if the device is a
272 0547 1     terminal; otherwise the PROMPT_STRING is ignored.  No CRLF is
273 0548 1     appended to the record obtained from RMS.  On first call,
274 0549 1     device SYSS$COMMAND is opened.
275 0550 1     Thus the user can assign the logical name SYSS$COMMAND to any
276 0551 1     file name in order to redirect I/O.  Note: Generally
277 0552 1     LIB$GET_INPUT should be used rather than LIB$GET_COMMAND.
278 0553 1     LIB$GET_COMMAND should only be used when the user has indicated
279 0554 1     that the terminal is explicitly wanted when in an indirect file.
280 0555 1     For example, $INQUIRE or /COMFIRM qualifier.
281 0556 1     Normally, SYSS$INPUT and SYSS$COMMAND are the same file
282 0557 1     (interactive and batch).  It is only when an interactive user
283 0558 1     uses an indirect file that the devices are different
284 0559 1     (SYSS$INPUT = indirect file, SYSS$COMMAND remaining associated
285 0560 1     with the terminal).
286 0561 1
287 0562 1 CALLING SEQUENCE:
288 0563 1
289 0564 1     RET_STATUS.wlc.v = LIB$GET_COMMAND (get_string.wt.dx
290 0565 1                                     [,prompt_string.rt.dx
291 0566 1                                     [,outlen.ww.r]])
292 0567 1
293 0568 1 INPUT PARAMETERS:
294 0569 1
295 0570 1     prompt_string is the address of a string descriptor specifying
296 0571 1     an optional prompt which is output to the
297 0572 1     controlling input device.  Where other conventions
298 0573 1     are not established, it is recommended for
299 0574 1     consistency to make prompts be an English word
300 0575 1     followed by a colon(:), one (1) space, and no
301 0576 1     CRLF.
302 0577 1
303 0578 1 OUTPUT PARAMETERS:
304 0579 1
305 0580 1     get_string is the address of string descriptor of any type
306 0581 1     (unspecified, static, dynamic, or varying as
307 0582 1     specified by the DSC$B CLASS field) which is to
308 0583 1     receive the string. (See Chapter 2 -- Section on
309 0584 1     passing strings as output parameters for the
310 0585 1     semantics of each string type.)
311 0586 1     outlen is the number of characters returned to the
312 0587 1     caller.
```



```
0588 1 |
0589 1 | IMPLICIT INPUTS:
0590 1 |
0591 1 |     SYS_COMMAND_ISI  Set on first call to RMS internal stream
0592 1 |                      identifier.
0593 1 |
0594 1 | IMPLICIT OUTPUTS:
0595 1 |
0596 1 |     SYS_COMMAND_ISI  Set to RMS internal stream identifier
0597 1 |                      on first call when SYS$COMMAND is OPENed.
0598 1 |
0599 1 |
0600 1 | COMPLETION STATUS:
0601 1 |
0602 1 |     SSS_NORMAL if success.
0603 1 |
0604 1 |     LIB$_INPSTRTRU if input string is bigger than the caller's
0605 1 |                      fixed length string.
0606 1 |     LIB$_INVARG if the input descriptor's class is not a recognized
0607 1 |                      string type.
0608 1 |     RMS$_xyz if any RMS error.
0609 1 |
0610 1 | SIDE EFFECTS:
0611 1 |
0612 1 |     Opens file SYS$COMMAND on first call and remembers ISI for
0613 1 |     subsequent calls.
0614 1 | --
0615 1 |
0616 2 | BEGIN
0617 2 |
0618 2 | BUILTIN
0619 2 |     NULLPARAMETER;
0620 2 |
0621 2 | RETURN DO GET (.GET STRING,      ! String to return
0622 2 |               (IF NULLPARAMETER (2) THEN 0 ELSE .PROMPT_STRING), ! Optional
0623 2 |                                   ! prompt
0624 2 |                                   ! string
0625 2 |               (IF NULLPARAMETER (3) THEN 0 ELSE .OUTLEN), ! Optional
0626 2 |                                   ! number of
0627 2 |                                   ! chars returned
0628 2 |               SYS_COMMAND_ISI,  ! internal stream id for SYS$COMMAND
0629 2 |               11,               ! length of SYS$COMMAND string
0630 2 |               UPLIT ('SYS$COMMAND')); ! name to open first time
0631 2 |
0632 1 | END;                                ! End of LIB$GET_COMMAND routine
```

00 44 4E 41 4D 4D 4F 43 24 53 59 53 00044 P.AAB: .ASCII \SYS\$COMMAND\<0>

		0000 00000	.ENTRY	LIB\$GET_COMMAND, Save nothing	: 0531
	EF	AF 9F 00002	PUSHAB	P.AAB	: 0630
		0B DD 00005	PUSHL	#11	: 0621
	00000000'	EF 9F 00007	PUSHAB	SYS_COMMAND_ISI	: 0625
03		6C 91 0000D	CMPB	(APT, #3	

LIB\$GET_INPUT
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B 9
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		05	1F	00010	BLSSU	1\$	
	0C	AC	D5	00012	TSTL	12(AP)	
		04	12	00015	BNEQ	2\$	
		7E	D4	00017	CLRL	-(SP)	
		03	11	00019	BRB	3\$	
	0C	AC	DD	0001B	PUSHL	OUTLEN	
02		6C	91	0001E	CMPB	(AP), #2	0622
		05	1F	00021	BLSSU	4\$	
	08	AC	D5	00023	TSTL	8(AP)	
		04	12	00026	BNEQ	5\$	
		7E	D4	00028	CLRL	-(SP)	
		03	11	0002A	BRB	6\$	
	08	AC	DD	0002C	PUSHL	PROMPT_STRING	
	04	AC	DD	0002F	PUSHL	GET_STRING	0621
0000V CF		06	FB	00032	CALLS	#6, DO_GET	
		04	00	00037	RET		0632

; Routine Size: 56 bytes, Routine Base: _LIB\$CODE + 0050


```
359 0633 1 ROUTINE DO_GET (      ! Input string from SYS$INPUT or SYS$COMMAND
360 0634 1
361 0635 1     GET_STRING,          ! Adr. of string descriptor
362 0636 1     PROMPT_STRING,    ! Adr. of optional PROMPT_STRING string
363 0637 1                        ! descriptor
364 0638 1     OUTLEN,          ! Number of chars returned to the caller
365 0639 1     GET_ISI,         ! Adr. of ISI word for this file
366 0640 1     DEVICE_NAME_LEN, ! Length of device name string
367 0641 1     DEVICE_NAME     ! Adr. of device name string
368 0642 1
369 0643 1     ) = ! Value returned is RMS completion code
370 0644 1
371 0645 1 ++
372 0646 1 FUNCTIONAL DESCRIPTION:
373 0647 1
374 0648 1     A line from the current controlling input device, DEVICE_NAME,
375 0649 1     is obtained.  If an optional PROMPT_STRING is given, output
376 0650 1     will appear on the device, DEVICE_NAME, if the device is a
377 0651 1     terminal; otherwise the PROMPT_STRING is ignored.  No CRLF is
378 0652 1     appended to the record obtained from RMS.  On first call, device
379 0653 1     DEVICE_NAME is opened.
380 0654 1     Thus the user can assign the logical name DEVICE_NAME to any
381 0655 1     file name in order to redirect I/O.
382 0656 1
383 0657 1 CALLING SEQUENCE:
384 0658 1
385 0659 1     ret_status.wlc.v = DO_GET (get_string.wt.dx,
386 0660 1                        [prompt_string.rt.dx],
387 0661 1                        [outlen.wv.r],
388 0662 1                        get_isi.mw.r,
389 0663 1                        device_name_len.rl.v,
390 0664 1                        device_name.rt.r)
391 0665 1
392 0666 1 INPUT PARAMETERS:
393 0667 1
394 0668 1     prompt_string is the address of a string descriptor specifying
395 0669 1     an optional prompt which is output to the
396 0670 1     controlling input device.  Where other conventions
397 0671 1     are not established, it is recommended for
398 0672 1     consistency to make prompts be an English word
399 0673 1     followed by a colon(:), one (1) space, and no
400 0674 1     CRLF.
401 0675 1
402 0676 1
403 0677 1     get_isi      Set on first call to RMS internal stream
404 0678 1     identifier.
405 0679 1
406 0680 1     device_name_len is the length of the device_name string in
407 0681 1     bytes.
408 0682 1
409 0683 1     device_name  is the adr. of the device name to be opened
410 0684 1     the first time.
411 0685 1
412 0686 1 OUTPUT PARAMETERS:
413 0687 1
414 0688 1     get_string   is the address of the string descriptor
415 0689 1     which is to receive the string.
```

```

416 0690 1 | outlen      Is the number of characters returned to the caller
417 0691 1 |
418 0692 1 | IMPLICIT INPUTS:
419 0693 1 |
420 0694 1 |     NONE
421 0695 1 |
422 0696 1 | IMPLICIT OUTPUTS:
423 0697 1 |
424 0698 1 |     NONE
425 0699 1 |
426 0700 1 | COMPLETION STATUS:
427 0701 1 |
428 0702 1 |     $$$_NORMAL if success.
429 0703 1 |
430 0704 1 |     LIB$_INPSTRTRU if input string is bigger than the caller's
431 0705 1 |         fixed length string.
432 0706 1 |     LIB$_INVSTRDES if the input descriptor's class is not a
433 0707 1 |         recognized string class.
434 0708 1 |     RMSS$_xyz if any RMS error.
435 0709 1 |
436 0710 1 | SIDE EFFECTS:
437 0711 1 |
438 0712 1 |     Opens file DEVICE_NAME on first call and remembers ISI for
439 0713 1 |     subsequent calls by storing ISI in get_isi.
440 0714 1 | --
441 0715 1 |
442 0716 2 | BEGIN
443 0717 2 |
444 0718 2 | BUILTIN
445 0719 2 |     NULLPARAMETER;
446 0720 2 |
447 0721 2 | LOCAL
448 0722 2 |     GET_STRING_LEN: WORD,           | length of buffer
449 0723 2 |     GET_STRING_ADDR,               | addr of buffer
450 0724 2 |     PROMPT_STRING_LEN: WORD,       | length of prompt
451 0725 2 |                                     | string
452 0726 2 |     PROMPT_STRING_ADDR,            | addr of prompt string
453 0727 2 |     GET_STATUS,                    | status from $GET
454 0728 2 |     RET_STATUS,                     | status from other
455 0729 2 |                                     | calls
456 0730 2 |     FAB : $FAB_DECL,               | FAB
457 0731 2 |     RAB : $RAB_DECL,               | RAB
458 0732 2 |     DYNAMIC_STR_BUF : VECTOR [K_DYN_STR_MAX, BYTE, UNSIGNED]; | temporary buffer for
459 0733 2 |                                     | dynamic string case.
460 0734 2 |
461 0735 2 | MAP
462 0736 2 |
463 0737 2 |     GET_STRING : REF BLOCK [8, BYTE], | String descriptor
464 0738 2 |     PROMPT_STRING : REF BLOCK [8, BYTE], | String descriptor
465 0739 2 |     OUTLEN : REF VECTOR [1, WORD, UNSIGNED], | Number of characters
466 0740 2 |                                     | returned to the user
467 0741 2 |     GET_ISI : REF VECTOR [1, WORD, UNSIGNED]; | Place to remember
468 0742 2 |                                     | ISI in static
469 0743 2 |                                     | storage
470 0744 2 |
471 0745 3 | IF (.GET_ISI [0] EQL 0)
472 0746 2 | THEN
```



```

473      0747      2
474      0748
475      0749
476      0750
477      P 0751
478      PP 0752
479      PP 0753
480      PP 0754
481      PP 0755
482      0756
483      0757
484      0758
485      0759
486      0760
487      0761
488      0762
489      0763
490      0764
491      0765
492      0766
493      0767
494      0768
495      0769
496      0770
497      0771
498      0772
499      0773
500      0774
501      0775
502      0776
503      0777
504      0778
505      0779
506      0780
507      0781
508      0782
509      0783
510      0784
511      0785
512      0786
513      0787
514      0788
515      0789
516      0790
517      0791
518      0792
519      0793
520      0794
521      0795
522      0796
523      0797
524      0798
525      0799
526      0800
527      0801
528      0802
529      0803

      !+ First call, initialize FAB
      !-
      BEGIN
      $FAB_INIT (FAB = FAB,
                FAC = GET,      ! file access: GET
                FNA = .DEVICE_NAME, ! file name: DEVICE_NAME
                FNS = .DEVICE_NAME_LEN); ! (SYS$INPUT or SYS$COMMAND)
                ! file name size:
                ! 9 or 11 bytes

      !+ Open DEVICE_NAME, remember RMS internal stream identifier
      !-
      RET_STATUS = $OPEN (FAB = FAB);      ! fab addr : FAB

      !+ If the OPEN fails, return the RMS status code.
      !-
      IF ( NOT .RET_STATUS) THEN RETURN (.RET_STATUS);

      $RAB_INIT (FAB = FAB, RAB = RAB);
      RET_STATUS = $CONNECT (RAB = RAB); ! connect RAB to the file

      !+ Similarly, if the CONNECT fails, return the RMS status code.
      !-
      IF ( NOT .RET_STATUS) THEN RETURN (.RET_STATUS);

      GET_ISI [0] = .RAB [RAB$W_ISI];      ! remember ISI
      END      ! of first call

      ELSE

      !+ file already open, just initialize RAB
      !- including internal stream identifier returned from first $OPEN
      BEGIN      ! file already open
      $RAB_INIT (FAB = FAB, RAB = RAB);
      RAB [RAB$W_ISI] = .GET_ISI [0];
      END;      ! file already open

      !+ Determine which buffer area to read into, and how long it is.
      !- Use LIB$ANALYZE_SDESC_R2 to get length and address of 1st data byte
      !- of caller's buffer.
      !- If the descriptor is invalid, return status returned by
      !- LIB$ANALYZE_SDESC_R2.

      IF .GET_STRING [DSC$B_CLASS] GTRU DSC$K_CLASS_D
      THEN      ! Use generalized extraction
      BEGIN
      LOCAL RET_STATUS ;
      RET_STATUS = LIB$ANALYZE_SDESC_R2 ( .GET_STRING ;
```

```
530 0804 GET_STRING_LEN,  
531 0805 GET_STRING_ADDR ) ;  
532 0806  
533 0807 IF NOT .RET_STATUS THEN RETURN (.RET_STATUS) ;  
534 0808 END  
535 0809  
536 0810 ELSE ! Fetch length and address directly  
537 0811  
538 0812 BEGIN  
539 0813 GET_STRING_LEN = .GET_STRING [DSC$W_LENGTH] ;  
540 0814 GET_STRING_ADDR = .GET_STRING [DSC$A_POINTER] ;  
541 0815 END ;  
542 0816  
543 0817  
544 0818 + If GET_STRING is dynamic, we arrange to read onto a area of the  
545 0819 stack since the dynamic string may not be allocated.  
546 0820 However, if the dynamic string happens to be allocated and if it  
547 0821 contains more space than we would have used (256 bytes), then  
548 0822 we should use the space that the caller has provided.  
549 0823 -  
550 0824 IF .GET_STRING [DSC$B_CLASS] EQL DSC$K_CLASS_D  
551 0825 AND .GET_STRING_LEN LESS K_DYN_STR_MAX  
552 0826 THEN  
553 0827 BEGIN  
554 0828 GET_STRING_LEN = K_DYN_STR_MAX ;  
555 0829 GET_STRING_ADDR = DYNAMIC_STR_BUF ;  
556 0830 END ;  
557 0831  
558 0832 +  
559 0833 If GET_STRING was varying, the length we want is MAXSTRLEN, not  
560 0834 CURLEN as returned by LIB$ANALYZE_SDESC_R2.  
561 0835 -  
562 0836 IF .GET_STRING [DSC$B_CLASS] EQL DSC$K_CLASS_VS  
563 0837 THEN  
564 0838 BEGIN  
565 0839 GET_STRING_LEN = .GET_STRING [DSC$W_MAXSTRLEN] ;  
566 0840 END ;  
567 0841  
568 0842 + Set up RAB buffer address and length fields based on our computations.  
569 0843 -  
570 0844 RAB [RAB$L_UBF] = .GET_STRING_ADDR ;  
571 0845 RAB [RAB$W_USZ] = .GET_STRING_LEN ;  
572 0846  
573 0847 +  
574 0848 Setup prompt buffer address and size in RAB if PROMPT_STRING string  
575 0849 present. If Prompt string descriptor invalid, return status returned  
576 0850 by LIB$ANALYZE_SDESC_R2.  
577 0851 -  
578 0852  
579 0853 IF ( NOT NULLPARAMETER (2))  
580 0854 THEN  
581 0855 BEGIN  
582 0856 IF .PROMPT_STRING [DSC$B_CLASS] GTRU DSC$K_CLASS_D  
583 0857 THEN ! Use generalized extraction  
584 0858 BEGIN  
585 0859 LOCAL RET_STATUS ;  
586 0860 RET_STATUS = LIB$ANALYZE_SDESC_R2 ( .PROMPT_STRING ;
```



```
587 0861 4 PROMPT_STRING_LEN,  
588 0862 4 RAB [RAB$L_PBF] );!addr.  
589 0863 4 IF NOT .RET_STATUS THEN RETURN (.RET_STATUS) ;  
590 0864 4 END  
591 0865 4  
592 0866 3 ELSE ! Fetch length and address directly  
593 0867 4 BEGIN  
594 0868 4 PROMPT_STRING_LEN = .PROMPT_STRING [DSC$W_LENGTH] ;  
595 0869 4 RAB [RAB$L_PBF] = .PROMPT_STRING [DSC$A_POINTER] ;  
596 0870 4 END;  
597 0871 3  
598 0872 3 RAB [RAB$B_PSZ] = MINU (255, .PROMPT_STRING_LEN);  
599 0873 3 RAB [RAB$V_PMT] = 1;  
600 0874 2 END;  
601 0875 2  
602 0876 2  
603 0877 2 + Input the string as a single record  
604 0878 2 Return RMS error status if not RECORD TOO BIG or RECORD STREAM ACTIVE.  
605 0879 2 On record stream active, wait and try again.  
606 0880 2 -  
607 0881 2 GET_STATUS = $GET (RAB = RAB);  
608 0882 2  
609 0883 2 IF NOT .GET_STATUS  
610 0884 2 THEN  
611 0885 3 BEGIN  
612 0886 3 WHILE (.RAB [RAB$L_STS] EQL RMS$RSA) DO  
613 0887 4 BEGIN  
614 0888 4 $WAIT (RAB = RAB);  
615 0889 4 GET_STATUS = $GET (RAB = RAB);  
616 0890 3 END;  
617 0891 2 END;  
618 0892 2  
619 0893 2 +  
620 0894 2 Having read the record, we now have to worry about the semantics of  
621 0895 2 GET_STRING.  
622 0896 2 If GET_STRING has fixed-length semantics, we must blank fill the tail  
623 0897 2 end of the buffer that RMS didn't fill.  
624 0898 2 If GET_STRING has dynamic semantics, the input got read into an area  
625 0899 2 on the stack (or in the user's buffer) and needs to be copied  
626 0900 2 to GET_STRING.  
627 0901 2 If GET_STRING has varying string semantics we need to adjust the  
628 0902 2 CURLEN field to reflect how many bytes it really contains.  
629 0903 2 -  
630 0904 2 CASE .GET_STRING [DSC$B_CLASS]  
631 0905 2 FROM DSC$R_CLASS_Z TO DSC$K_CLASS_SB OF  
632 0906 2 SET  
633 0907 2 +  
634 0908 2 ! Classes with fixed-length string semantics  
635 0909 2 -  
636 0910 2 [DSC$K_CLASS_Z, ! Unspecified  
637 0911 2 DSC$K_CLASS_S, ! Scalar  
638 0912 2 DSC$K_CLASS_A, ! Array  
639 0913 2 DSC$K_CLASS_SD, ! Scaled decimal  
640 0914 2 DSC$K_CLASS_NCA, ! Non-contiguous array  
641 0915 2 DSC$K_CLASS_SB]; ! String with bounds  
642 0916 2 BEGIN ! fixed length processing  
643 0917 2 +
```

```

644 0918 3
645 0919
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685 0959
686 0960
687 0961
688 0962
689 0963
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692 0966
693 0967
694 0968
695 0969
696 0970
697 0971
698 0972
699 0973
700 0974 2

! Because we opened the file in MOVE mode and used the
! caller's string as the UBF, we need only blank pad the
! area beyond the string; the actual data has been
! moved into the front of the user's string by RMS.
CH$FILL (XC' ',
        .GET_STRING_LEN - .RAB [RAB$W_RSZ],
        .GET_STRING_ADDR + .RAB [RAB$W_RSZ]);
RET_STATUS = 1; ! To denote copy success
END; ! fixed length processing

!+
! Classes with varying string semantics
[DSC$K_CLASS_VS]: ! Varying string
BEGIN ! varying length processing
(.GET_STRING [DSC$A_POINTER]) < 0, 16 > = .RAB [RAB$W_RSZ] ;
! CURLEN <- bytes gotten
RET_STATUS = 1; ! To denote copy success
END; ! varying length processing

!+
! Classes with dynamic string semantics
! Even if we had read into the user's buffer, we still must
! ensure that the length is correct.
[DSC$K_CLASS_D]: ! Dynamic string
BEGIN ! dynamic length processing
RET_STATUS = LIB$COPY_R_DX6 (.RAB [RAB$W_RSZ],
                            (IF .GET_STRING_LEN LSSU K_DYN_STR_MAX
                             THEN
                                DYNAMIC_STR_BUF
                             ELSE
                                .GET_STRING_ADDR),
                            .GET_STRING);
END; ! dynamic length processing

[INRANGE, OUTRANGE]: ! Should never take this path since
! a bad descriptor class code should
! have gotten caught the first time
! we tried to get GET_STRING's length
! and address.
RETURN (LIB$_FATERRLIB) ;

TES;
!+
! If requested, tell the caller the number of bytes actually returned,
! not counting blank padding, if any.
!-
IF ( NOT NULLPARAMETER (3))
THEN OUTLEN [0] = MINU (.RAB [RAB$W_RSZ], .GET_STRING_LEN);

!+
! Return proper status code.
!-

```



```
701 0975 2
702 0976 2
703 0977 2
704 0978 2
705 0979 2
706 0980 2
707 0981 2
708 0982 2
709 0983 2
710 0984 2
711 0985 2
712 0986 2
713 0987 1

IF .GET_STATUS EQLU RMS$_RTB
THEN
  RETURN (LIB$INPSTRTRU)
ELSE IF NOT .GET_STATUS
THEN
  RETURN .GET_STATUS
ELSE IF NOT .RET_STATUS
THEN
  RETURN .RET_STATUS
ELSE RETURN SSS$_NORMAL;

END;
```

! Record too big

! End of routine DO_GET

```
.EXTRN SYSS$OPEN, SYSS$CONNECT
.EXTRN SYSS$GET, SYSS$WAIT
```

```
DO_GET: .WORD Save R2,R3,R4,R5,R6,R7,R8,R9,R10,R11      0633
MOVAB SYSS$GET, R11
MOVAB LIB$ANALYZE_SDESC_R2, R10
MOVAB -404(SP), SP
TSTW @GET_ISI
BNEQ 3$
MOVCS #0, (SP), #0, #80, $RMS_PTR      0755

MOVW #20483, $RMS_PTR
MOVB #2, $RMS_PTR+22
MOVB #2, $RMS_PTR+31
MOVL DEVICE_NAME, $RMS_PTR+44
MOVB DEVICE_NAME_LEN, $RMS_PTR+52
PUSHAB FAB
CALLS #1, SYSS$OPEN
MOVL R0, RET_STATUS
BLBC RET_STATUS, 1$
MOVCS #0, (SP), #0, #68, $RMS_PTR      0761
                                         0767
                                         0769

MOVW #17409, $RMS_PTR
MOVAB FAB, $RMS_PTR+60
PUSHAB RAB
CALLS #1, SYSS$CONNECT
MOVL R0, RET_STATUS
BLBS RET_STATUS, 2$
BRW 28$
MOVW RAB+2, @GET_ISI
BRB 4$
MOVCS #0, (SP), #0, #68, $RMS_PTR      0770
                                         0776
                                         0778
                                         0745
                                         0788

MOVW #17409, $RMS_PTR
MOVAB FAB, $RMS_PTR+60
MOVW @GET_ISI, RAB+2
MOVL GET_STRING, R6
CMPB 3(R6), #2
BLEQU 5$
MOVL R6, R0
JSB LIB$ANALYZE_SDESC_R2      0789
                                         0799
                                         0803
```

54		52	D0	000A8	MOVL	R2, R4	:	
57		51	D0	000AB	MOVL	R1, GET_STRING_LEN	:	
08		50	E8	000AE	BLBS	RET_STATUS, 6\$:	0807
			04	000B1	RET		:	
57		66	B0	000B2	5\$: MOVW	(R6), GET_STRING_LEN	:	0813
54	04	A6	D0	000B5	MOVL	4(R6), GET_STRING_ADDR	:	0814
02	03	A6	91	000B9	6\$: CMPB	3(R6), #2	:	0824
		0F	12	000BD	BNEQ	7\$:	
0100	8F	57	B1	000BF	CMPW	GET_STRING_LEN, #256	:	0825
		08	1E	000C4	BGEQU	7\$:	
57	0100	8F	B0	000C6	MOVW	#256, GET_STRING_LEN	:	0828
54		6E	9E	000CB	MOVAB	DYNAMIC_STR_BUF, GET_STRING_ADDR	:	0829
0B	03	A6	91	000CE	7\$: CMPB	3(R6), #11	:	0836
		03	12	000D2	BNEQ	8\$:	
57		66	B0	000D4	MOVW	(R6), GET_STRING_LEN	:	0839
90	AD	54	D0	000D7	8\$: MOVL	GET_STRING_ADDR, RAB+36	:	0844
8C	AD	57	B0	000DB	MOVW	GET_STRING_LEN, RAB+32	:	0845
02		6C	91	000DF	CMPB	(AP), #2	:	0853
		3C	1F	000E2	BLSSU	12\$:	
	08	AC	D5	000E4	TSTL	8(AP)	:	
		37	13	000E7	BEQL	12\$:	
53	08	AC	D0	000E9	MOVL	PROMPT_STRING, R3	:	0856
02	03	A3	91	000ED	CMPB	3(R3), #2	:	
		0D	1B	000F1	BLEQU	9\$:	
50		53	D0	000F3	MOVL	R3, R0	:	0860
		6A	16	000F6	JSB	LIB\$ANALYZE_SDESC_R2	:	
9C	AD	52	D0	000F8	MOVL	R2, RAB+48	:	0862
09		50	E8	000FC	BLBS	RET_STATUS, 10\$:	0863
			04	000FF	RET		:	
51		63	B0	00100	9\$: MOVW	(R3), PROMPT_STRING_LEN	:	0868
9C	AD	A3	D0	00103	MOVL	4(R3), RAB+48	:	0869
50		51	3C	00108	10\$: MOVZWL	PROMPT_STRING_LEN, R0	:	0872
00FF	8F	50	B1	0010B	CMPW	R0, #255	:	
		04	1B	00110	BLEQU	11\$:	
50	FF	8F	9A	00112	MOVZBL	#255, R0	:	
AD		50	90	00116	11\$: MOVB	R0, RAB+52	:	
FF73	CD	8F	88	0011A	BISB2	#64, RAB+7	:	0873
	40	CD	9F	00120	12\$: PUSHAB	RAB	:	0881
	FF6C	01	FB	00124	CALLS	#1, SYSS\$GET	:	
6B		50	D0	00127	MOVL	R0, GET_STATUS	:	
58		58	E8	0012A	BLBS	GET_STATUS, 14\$:	0883
22		CD	D1	0012D	13\$: CMPL	RAB+8, #99034	:	0886
000182DA	8F	FF74	CD	00136	BNEQ	14\$:	
		FF6C	CD	00138	PUSHAB	RAB	:	0888
00000000G	00	FF6C	01	FB	CALLS	#1, SYSS\$WAIT	:	0889
		FF6C	CD	00143	PUSHAB	RAB	:	
		01	FB	00147	CALLS	#1, SYSS\$GET	:	
6B		50	D0	0014A	MOVL	R0, GET_STATUS	:	
58		DE	11	0014D	BRB	13\$:	0886
	03	A6	8F	0014F	14\$: CASEB	3(R6), #0, #15	:	0904
					15\$: .WORD	17\$-15\$,-	:	
0020	0045	0028	0028	00154		17\$-15\$,-	:	
0020	0020	0020	0028	0015C		20\$-15\$,-	:	
003B	0028	0028	0020	00164		16\$-15\$,-	:	
0028	0020	0020	0020	0016C		17\$-15\$,-	:	
						16\$-15\$,-	:	
						16\$-15\$,-	:	

51

20

0100

000181A8 OC

Address	Hex	Op	OpHex	OpDec	Inst	Comment	PC
50	00000000G	00	9E	00174	16\$:	MOVAB LIB\$_FATERRLIB, R0	0962
			04	0017B		RET	
50	8E	AD	3C	0017C	17\$:	MOVZWL RAB+34, R0	0924
51		57	3C	00180		MOVZWL GET_STRING_LEN, R1	
51		50	C2	00183		SUBL2 R0, R1	
6E		00	2C	00186		MOVCS #0, (SP), #32, R1, (R0)[GET_STRING_ADDR]	0925
		6044		0018B			
		05	11	0018D		BRB 19\$	0926
B6	8E	AD	B0	0018F	18\$:	MOVW RAB+34, @4(R6)	0935
59		01	D0	00194	19\$:	MOVL #1, RET_STATUS	0937
		22	11	00197		BRB 23\$	0904
8F		57	B1	00199	20\$:	CMPW GET_STRING_LEN, #256	0949
		08	1E	0019E		BGEQU 21\$	
52		6E	9E	001A0		MOVAB DYNAMIC_STR_BUF, R2	
51		52	C0	001A3		MOVL R2, R1	
		03	11	001A6		BRB 22\$	
51		54	D0	001A8	21\$:	MOVL GET_STRING_ADDR, R1	0953
52		56	D0	001AB	22\$:	MOVL R6, R2	0948
50	8E	AD	3C	001AE		MOVZWL RAB+34, R0	
	00000000G	00	16	001B2		JSB LIB\$SCOPY_R_DX6	
59		50	D0	001B8		MOVL R0, RET_STATUS	
03		6C	91	001BB	23\$:	CMPB (AP), #3	0969
		15	1F	001BE		BLSSU 25\$	
	0C	AC	D5	001C0		TSTL 12(AP)	
		10	13	001C3		BEQL 25\$	
50	8E	AD	3C	001C5		MOVZWL RAB+34, R0	0970
50		57	B1	001C9		CMPW GET_STRING_LEN, R0	
		03	1E	001CC		BGEQU 24\$	
50		57	3C	001CE		MOVZWL GET_STRING_LEN, R0	
BC		50	B0	001D1	24\$:	MOVW R0, @OUTLEN	
8F		58	D1	001D5	25\$:	CMPL GET_STATUS, #98728	0976
		08	12	001DC		BNEQ 26\$	
50	00000000G	00	9E	001DE		MOVAB LIB\$_INPSTRTRU, R0	0978
			04	001E5		RET	0979
04		58	E8	001E6	26\$:	BLBS GET_STATUS, 27\$	
50		58	D0	001E9		MOVL GET_STATUS, R0	0981
			04	001EC		RET	
04		59	E8	001ED	27\$:	BLBS RET_STATUS, 29\$	0982
50		59	D0	001F0	28\$:	MOVL RET_STATUS, R0	0984
			04	001F3		RET	
50		01	D0	001F4	29\$:	MOVL #1, R0	0985
			04	001F7		RET	0987

```
; Routine Size: 504 bytes,   Routine Base: _LIB$CODE + 0088
```

```

: 714      0988 1 END
: 715      0989 1

```

```
!End of module LIB$GET_INPUT
```

LIB\$GET_INPUT
1-015

L 9
16-Sep-1984 01:00:46
14-Sep-1984 12:38:58

VAX-11 Bliss-32 V4.0-742
[LIBRTL.SRC]LIBGETINP.B32;1

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(5)

: 716 0990 0 ELUDOM

PSECT SUMMARY

Name	Bytes	Attributes
LIB\$DATA	4	NOVEC, WRT, RD, NOEXE, NOSHR, LCL, REL, CON, PIC, ALIGN(2)
LIB\$CODE	640	NOVEC, NOWRT, RD, EXE, SHR, LCL, REL, CON, PIC, ALIGN(2)

Library Statistics

File	----- Total	Symbols Loaded	----- Percent	Pages Mapped	Processing Time
_\$255\$DUA28:[SYSLIB]STARLET.L32;1	9776	87	0	581	00:00.8

COMMAND QUALIFIERS

BLISS/CHECK=(FIELD,INITIAL,OPTIMIZE)/NOTRACE/LIS=LISS:LIBGETINP/OBJ=OBJ\$:LIBGETINP MSRC\$:LIBGETINP/UPDATE=(ENH\$:LIBGETINP)

: Size: 616 code + 28 data bytes
: Run Time: 00:11.7
: Elapsed Time: 00:41.5
: Lines/CPU Min: 5089
: Lexemes/CPU-Min: 40128
: Memory Used: 192 pages
: Compilation Complete

0207 AH-BT13A-SE
VAX/VMS V4.0

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